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**SECTION 1**

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**PRODUCT IDENTIFIER** ZY2800 KLENK'S AQUATECH WHITE  
**DATE OF PREPARATION** DECEMBER 30, 1999  
**PRODUCT USE** PROTECTIVE COATING

**MANUFACTURED BY:** ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE,  
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**EMERGENCY AND MSDS TELEPHONE NUMBER:**  
1-800-545-2643

**MSDS PREPARED BY:** PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
ICI PAINTS NORTH AMERICA

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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	INGREDIENT	WT. %:
<b>CHEMICAL NAME</b>	POLYETHYLENE POLYAMINE ADDUCT	5-10
<b>COMMON NAME :</b>	ALIPHATIC AMINE	
<b>CAS NUMBER:</b>	CONFIDENTIAL	
<b>CHEMICAL NAME</b>	TITANIUM OXIDE	40-50
<b>COMMON NAME :</b>	TITANIUM DIOXIDE	
<b>CAS NUMBER:</b>	13463-67-7	
<b>CHEMICAL NAME</b>	ALUMINUM HYDROXIDE	5-10
<b>COMMON NAME :</b>	ALUMINUM HYDROXIDE	
<b>CAS NUMBER:</b>	21645-51-2	
<b>CHEMICAL NAME</b>	ETHANOL, 2-PROPOXY-	5-10
<b>COMMON NAME :</b>	ETHYLENE GLYCOL MONOPROPYL ETHER	
<b>CAS NUMBER:</b>	2807-30-9	
<b>CHEMICAL NAME</b>	SILICA	5-10
<b>COMMON NAME :</b>	AMORPHOUS SILICA	
<b>CAS NUMBER:</b>	7631-86-9	
<b>CHEMICAL NAME</b>	WATER	20-30
<b>COMMON NAME :</b>	WATER	
<b>CAS NUMBER:</b>	7732-18-5	

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**SECTION 3: HAZARDS IDENTIFICATION**

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**PRIMARY ROUTE(S) OF EXPOSURE**  
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

**EFFECTS OF OVEREXPOSURE**  
**INHALATION** PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.

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**SECTION 3: HAZARDS IDENTIFICATION**

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<b>SKIN CONTACT</b>	IRRITATION OF SKIN. POSSIBLE SENSITIZATION TO SKIN. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE.
<b>EYE CONTACT</b>	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE REDNESS OF EYES, SEVERE EYE IRRITATION.
<b>INGESTION</b>	INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE.
<b>MEDICAL CONDITIONS</b>	AGGRAVATED BY EXPOSURE EYE, SKIN, RESPIRATORY DISORDERS KIDNEY DISORDERS

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**SECTION 4: FIRST-AID MEASURES**

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<b>INHALATION</b>	REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.
<b>SKIN CONTACT</b>	FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. DISPOSE OF CONTAMINATED LEATHER ITEMS, SUCH AS SHOES AND BELTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.
<b>INGESTION</b>	IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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<b>FLASH POINT (BETA)</b>	130 F./ 54 C.	<b>LOWER EXPLOSIVE LIMIT</b>	1.2	(X)
		<b>UPPER EXPLOSIVE LIMIT</b>	15.8	(X)
<b>FIRE EXTINGUISHING</b>	MEDIA DRY CHEMICAL OR FOAM WATER FOG. CARBON DIOXIDE.			
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.			

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**SECTION 5: FIRE-FIGHTING MEASURES**

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CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.  
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

**FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS. SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, OXYGEN, PEROXIDES, ALDEHYDES, ACIDS, UNIDENTIFIED ORGANIC COMPOUNDS.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.

COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE

ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

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**SECTION 7 HANDLING AND STORAGE**

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**HANDLING AND STORAGE**

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING. KEEP AWAY FROM DIRECT SUNLIGHT, HEAT AND ALL SOURCES OF IGNITION.

**OTHER PRECAUTIONS**

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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COMMON NAME :	TITANIUM DIOXIDE		
CAS NUMBER:	13463-67-7		
ACGIH(TWA):	10 MG/M3	OSHA(TWA):	10 MG/M3
COMMON NAME :	ALUMINUM HYDROXIDE		
CAS NUMBER:	21645-51-2		
ACGIH(TWA):	10 MG/M3	OSHA(TWA):	5 MG/M3
COMMON NAME :	AMORPHOUS SILICA		
CAS NUMBER:	7631-86-7		
ACGIH(TWA):	10 MG/M3	OSHA(TWA):	6 MG/M3

**RESPIRATORY PROTECTION**

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

**VENTILATION**

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.  
USE EXPLOSION-PROOF EQUIPMENT.

**PERSONAL PROTECTIVE EQUIPMENT**

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, BOOTS.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.810
BOILING RANGE:	212-212F/ -100C	WEIGHT PER GALLON:	15.07/ 18.10IMP
VOLATILE BY VOLUME:	56.71		
PHYSICAL STATE:	LIQUID	APPEARANCE	WHITE
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

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**SECTION 10: STABILITY AND REACTIVITY**

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**UNDER NORMAL CONDITIONS**

STABLE  
SEE SECTION 5 FIRE FIGHTING MEASURES

**MATERIALS TO AVOID**

OXIDIZERS, AMINES, MINERAL ACIDS.  
CHLORINATED RUBBER

**CONDITIONS TO AVOID**

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT,  
FREEZING, SPARKS, OPEN FLAME, IGNITION SOURCES.

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SECTION 10: STABILITY AND REACTIVITY  
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HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR

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SECTION 11: TOXICOLOGICAL INFORMATION  
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COMMON NAME : ALIPHATIC AMINE  
CAS NUMBER: CONFIDENTIAL  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : TITANIUM DIOXIDE  
CAS NUMBER: 13463-67-7  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 24.00 GM/KG ORL RAT  
LC50: 6820.00 MG/M3/4HR IHL RAT

COMMON NAME : ALUMINUM HYDROXIDE  
CAS NUMBER: 21645-51-2  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : ETHYLENE GLYCOL MONOPROPYL ETHER  
CAS NUMBER: 2807-30-9  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 3089.00 MG/KG ORL RAT  
LD50: 960.00 MG/KG SKN RBT  
LC50: 1530.00 PPM IHL MOU

COMMON NAME : AMORPHOUS SILICA  
CAS NUMBER: 7631-86-9  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

## SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INGESTION.  
CONTAINS A CHEMICAL THAT IS TOXIC BY INHALATION.  
CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.  
NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED  
OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN  
AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY  
DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS  
MAY BE HARMFUL OR FATAL.  
OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO BLOOD.

CARCINOGENICITY NO CARCINOGENIC EFFECTS ARE ANTICIPATED

REPRODUCTIVE EFFECTS NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY NO TERATOGENIC EFFECTS ARE ANTICIPATED

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SECTION 12: ECOLOGICAL INFORMATION

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NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

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SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL** DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.  
AVOID DISCHARGE TO NATURAL WATERS.

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SECTION 14: TRANSPORT INFORMATION

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DOT	PAINT, COMBUSTIBLE LIQUID, UN 1263, PGIII
IMDG	NOT AVAILABLE
IATA	NOT AVAILABLE
TDG	NOT AVAILABLE

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SECTION 15: REGULATORY INFORMATION

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SARA	SARA	CERCLA	HAZ	AIR	MARINE
302	313	302.4	POLLUTANT	POLYNT	

CAS NUMBER:	2807-30-9	NO	YES	NO	YES	NO
COMMON NAME :	ETHYLENE GLYCOL MONOPROPYL ETHER					

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

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SECTION 16: OTHER INFORMATION

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THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.